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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/501,784	07/19/2004	Ronald Peter Hill		4369	
D Robertson	7590 10/10/2007 D.Robertson		EXAM	INER	
Armeg	Armeg			WILLIAMS, JAMILA O	
Callywhite Lane Dronfield Derbyshire, S18 2XJ			ART UNIT	PAPER NUMBER	
UNITED KINGDOM			3722		
			MAIL DATE	DELIVERY MODE	
			10/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	10/501,784	HILL, RONALD PETER			
Office Action Summary	Examiner	Art Unit			
	Jamila Williams	3722			
The MAILING DATE of this communication a		et with the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statuary reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 1.136(a). In no event, however, mand d will apply and will expire SIX (6) after, cause the application to become	JNICATION.  ay a reply be timely filed  MONTHS from the mailing date of this communication.  ne ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16	July 2007.				
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1 and 5-9</u> is/are pending in the appl	ication.				
, , , , , , , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,5-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement				
Application Papers					
9)☐ The specification is objected to by the Examir	ner.				
10) The drawing(s) filed on is/are: a) □ ac	ccepted or b) objected	I to by the Examiner.			
Applicant may not request that any objection to th	e drawing(s) be held in abe	eyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ection is required if the drav	ving(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the attac	ched Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.	C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documer	nts have been received.				
2. Certified copies of the priority document	nts have been received i	in Application No			
<ol><li>Copies of the certified copies of the pri</li></ol>	ority documents have be	een received in this National Stage			
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a lis	st of the certified copies	not received.			
Attachment(s)	<u></u>				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		iew Summary (PTO-413) No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice	e of Informal Patent Application			
Paper No(s)/Mail Date	6) Dother:	<u> </u>			

# DETAILED ACTION

#### Claim Objections

Claim 1 is objected to because of the following informalities: In amended claim 1, applicant uses the transitional phrase "comprising of" which is not a proper transitional phrase. Applicant is advised to review MPEP 2111.03 for acceptable transitional phrases. Appropriate correction is required.

Claims 2-4, have been referenced by the status identifier "Withdrawn" but they should be referenced by the status identifier "Canceled". Appropriate correction is required.

For purposes of this office action the examiner is treating the claims as canceled.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5-9 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The preamble of claims 5-9 are not consistent with the independent claim 1, which recites "a tile cutting attachment...comprising...". The relationship between the independent and dependent claims is not clear.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,6,8 are rejected under 35 U.S.C. 102(b) as being anticipated by 4,480,952 to Jeremias. Jeremias discloses a cutting attachment having a shaft (12) and a tip (30) for engaging the workpiece; the tip having six cutting edges (fig 3); each edge provided with a clearance angle (col. 2 lines 50-51); tip angle of 90 degrees (col. 2 lines 36-38); the point angle and relief angle should form a central point on the head of the tip (fig 4); the bit has an active diameter (fig 1).

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5,7,9 are rejected under 35 U.S.C. 103(a) as being unpatentable over 4,480,952 to Jeremias. Jeremias discloses all of the elements of the claims but for the specific relief angle recited in claim 5, the specific overall angle recited in claim 7 and the material recited in claim 9. In that Jeremias discloses having a relief angle and applicant has provides no criticality to the specific angle disclosed, it would have been

obvious to one having ordinary skill in the art at the time the invention was made to alter the value of the relief angle since discovering optimum ranges or values involves only routine skill in the art. Similarly with the overall angles of the secondary cutting edges, Jeremias discloses that edges 32,34 have an angle of preferably 40 degrees although angles from 60-15 degrees can be used. In that 30 degrees (which is claimed) falls within this range, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have secondary cutting edges of 30 degrees for the purpose of having improved cutting.

Regarding the material used for the cutting tip. It is well known to make cutting tips out of tungsten carbide, therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the tip of Jeremias out of tungsten carbide, especially since applicant provides no criticality for the use of this material (page 3 of specification list this material as one possible alternative).

#### Response to Arguments

Applicant's arguments filed 7/16/2007 have been fully considered but they are not persuasive.

The examiner maintains the art rejections of Jeremias, which discloses the cutting tool as claimed.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

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MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jamila Williams whose telephone number is 571-272-

4431. The examiner can normally be reached on Monday-Thursday 6:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Monica Carter can be reached on 571-272-4475. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

MONICA CARTER

SUPERVISORY PATENT EXAMINER

Monica S. Center

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JW 10-2-2007